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<u>L6</u>	L5 and l4	13	<u>L6</u>
<u>L5</u>	byun.in.	506	<u>L5</u>
<u>L4</u>	yang.in.	15338	<u>L4</u>

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<u>L3</u>	L2 and protamine	1707	<u>L3</u>
<u>L2</u>	heparin inactivation	41989	<u>L2</u>
<u>L1</u>	purified protamine and heparin	216565	<u>L1</u>

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1. Document ID: US 6624141 B1

Using default format because multiple data bases are involved.

L8: Entry 1 of 1

File: USPT

Sep 23, 2003

US-PAT-NO: 6624141

DOCUMENT-IDENTIFIER: US 6624141 B1

** See image for Certificate of Correction **

TITLE: Protamine fragment compositions and methods of use

DATE-ISSUED: September 23, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yang; Victor C.	Ann Arbor	MI		
Byun; Youngro	Kwangsan-Ku Kwangju			KR

US-CL-CURRENT: 514/2; 530/350

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=> s protamine and heparin
L1 8662 PROTAMINE AND HEPARIN

=> s l1 and (heparin inactivation)
L2 6 L1 AND (HEPARIN INACTIVATION)

=> d l2 ti abs ibib tot

L2 ANSWER 1 OF 6 MEDLINE on STN

TI [Amino acid composition, heterogeneity and antiheparin activity of protamine sulfate from the milt roe of the sturgeon *Acipenser sturio*.]

Aminokislotnyi sostav, geterogennost' i antigeprinovaia aktivnost' protamina sul'fata molok osetra *Acipenser sturio*.

AB The homogeneous preparation of protamine sulphate is obtained chromatographically and electrophoretically from milt roe of the sturgeon. Its amino acid composition and properties are studied. The methods to blockade the functional groups of protamine sulphate amino acids is used to investigate the possible mechanism of heparin inactivation.

ACCESSION NUMBER: 90208925 MEDLINE

DOCUMENT NUMBER: PubMed ID: 2631325

TITLE: [Amino acid composition, heterogeneity and antiheparin activity of protamine sulfate from the milt roe of the sturgeon *Acipenser sturio*.]

Aminokislotnyi sostav, geterogenost' i antigeprinovaia aktivnost' protamina sul'fata molok osetra *Acipenser sturio*.

AUTHOR: Borodinskaia I N; Mishunin I F
SOURCE: Ukrainskii biokhimicheskii zhurnal, (1989 Nov-Dec) 61 (6) 84-8.

Journal code: 7804246. ISSN: 0201-8470.

PUB. COUNTRY: USSR

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: Russian

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199005

ENTRY DATE: Entered STN: 19900601
Last Updated on STN: 19900601
Entered Medline: 19900502

L2 ANSWER 2 OF 6 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
TI AMINO ACID COMPOSITION HETEROGENEITY AND ANTIHEPARIN ACTIVITY OF
PROTAMINE SULFATE FROM STURGEON MILT ROE ACIPENSER-STURIO.

AB The homogeneous preparation of protamine sulphate is obtained chromatographically and electrophoretically from milt roe of the sturgeon. Its amino acid composition and properties are studied. The methods of blockade the functional groups of protamine sulphate amino acids is used to investigate the possible mechanism of heparin

inactivation.

ACCESSION NUMBER: 1990:136075 BIOSIS
DOCUMENT NUMBER: PREV199089074886; BA89:74886
TITLE: AMINO ACID COMPOSITION HETEROGENEITY AND ANTIHEPARIN ACTIVITY OF PROTAMINE SULFATE FROM STURGEON MILT ROE ACIPENSER-STURIO.
AUTHOR(S): BORODINSKAYA I N [Reprint author]; MISHUNIN I F
CORPORATE SOURCE: AV PALLADIN INST BIOCHEM, ACAD SCI UKR SSR, KIEV, USSR
SOURCE: Ukrainskii Biokhimicheskii Zhurnal, (1989) Vol. 61, No. 6, pp. 84-88.
CODEN: UBZHD4. ISSN: 0201-8470.
DOCUMENT TYPE: Article
FILE SEGMENT: BA
LANGUAGE: RUSSIAN
ENTRY DATE: Entered STN: 13 Mar 1990
Last Updated on STN: 13 Mar 1990

L2 ANSWER 3 OF 6 USPATFULL on STN

TI Coated surfaces for immobilizing negatively charged anticoagulating agents from blood fluid

AB A wound closure apparatus is provided which utilizes blood fluid by activating the clotting cascade of blood fluid outside the body within a substantially enclosed sterile container then introducing, the blood fluid to the wound site to complete clotting. An apparatus for providing ways of inhibiting anticoagulating agents, and slowing fibrin clot degradation are also disclosed. Kits for practicing the invention singularly or in combination with, and/or associated with preferred procedures are also disclosed. The invention provides a clotting cascade initiation apparatus (1) including a substantially enclosed sterile containment chamber within which an aliquot of blood fluid, either autologous or from donor sources can be received, and retained. In preferred embodiments, the sterile containment chamber further includes a heparin binding agent which will bind heparin and remove it from the blood fluid. In further embodiments, the containment chamber will also include a procoagulating agent, wherein a clotting cascade can be initiated when the blood fluid is accepted into the sterile containment chamber.

ACCESSION NUMBER: 2003:325393 USPATFULL
TITLE: Coated surfaces for immobilizing negatively charged anticoagulating agents from blood fluid
INVENTOR(S): Sandhu, Shivpal S., Reading, UNITED KINGDOM
PATENT ASSIGNEE(S): BioInteractions Ltd. (non-U.S. corporation)

| | NUMBER | KIND | DATE |
|-----------------------|--|------|---------------|
| PATENT INFORMATION: | US 2003229376 | A1 | 20031211 |
| APPLICATION INFO.: | US 2003-389696 | A1 | 20030314 (10) |
| RELATED APPLN. INFO.: | Continuation of Ser. No. US 2002-291965, filed on 12 Nov 2002, PENDING Continuation of Ser. No. US 2002-194403, filed on 11 Jul 2002, PENDING Continuation of Ser. No. US 2000-585488, filed on 1 Jun 2000, GRANTED, Pat. No. US 6482223 | | |

| | NUMBER | DATE |
|-----------------------|---|---------------|
| PRIORITY INFORMATION: | US 1999-136837P | 19990601 (60) |
| DOCUMENT TYPE: | Utility | |
| FILE SEGMENT: | APPLICATION | |
| LEGAL REPRESENTATIVE: | Brad Pedersen, Patterson, Thuente, Skaar & Christensen, P.A., 4800 IDS Center, 80 South 8th Street, Minneapolis, MN, 55402-2100 | |
| NUMBER OF CLAIMS: | 15 | |

EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 4 Drawing Page(s)
LINE COUNT: 992

L2 ANSWER 4 OF 6 USPATFULL on STN

TI Clotting cascade initiating apparatus and methods of use
AB Wound closure methods and apparatus are provided which utilize blood fluid by activating the clotting cascade of blood fluid outside the body within a substantially enclosed sterile container then introducing the blood fluid to the wound site to complete clotting. Methods and apparatus for providing ways of inhibiting anti-coagulating agents and slowing fibrin clot degradation are also disclosed. Kits for practicing the invention singularly or in combination with and/or associated with preferred procedures are also disclosed. The present invention provides improved methods of creating hemostasis or control of bleeding at the site of wounds, particularly wounds created in arteries during procedures employing percutaneous access. The invention preferably includes the steps of acquiring an aliquot of a patient's blood, i.e., autologous blood, removing a negatively charged anti-coagulating agent, preferably heparin, from the blood, and preferably initiating the blood's natural clotting cascades and transporting the thus treated blood to the site of the wound where the clotting cascade will be completed producing a clot at the wound site that will create a condition of hemostasis. The invention further provides a clotting cascade initiation apparatus including a substantially enclosed sterile containment chamber within which an aliquot of blood fluid, either autologous or from donor sources, can be received and retained. In preferred embodiments, the sterile containment chamber further includes a heparin binding agent which will bind heparin and remove it from the blood fluid. In further embodiments the containment chamber will also include a procoagulating agent, wherein a clotting cascade can be initiated when the blood fluid is accepted into the sterile containment chamber.

ACCESSION NUMBER: 2003:100490 USPATFULL
TITLE: Clotting cascade initiating apparatus and methods of use
INVENTOR(S): Nowakowski, Karol L., Circle Pines, MN, UNITED STATES
Olson, James E., Eagan, MN, UNITED STATES
Joseph, Edward T., Inver Grove Heights, MN, UNITED STATES
Ericson, Daniel G., Rochester, MN, UNITED STATES
PATENT ASSIGNEE(S): Closys Corporation (U.S. corporation)

| NUMBER | KIND | DATE |
|--------|------|------|
|--------|------|------|

PATENT INFORMATION: US 2003069601 A1 20030410
APPLICATION INFO.: US 2002-291965 A1 20021112 (10)
RELATED APPLN. INFO.: Continuation of Ser. No. US 2000-585488, filed on 1 Jun 2000, GRANTED, Pat. No. US 6482223 Continuation-in-part of Ser. No. US 1998-212080, filed on 15 Dec 1998, GRANTED, Pat. No. US 6159232

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: Robert C. Freed, MOORE & HANSEN, 2900 Wells Fargo Center, 90 South Seventh Street, Minneapolis, MN, 55402
NUMBER OF CLAIMS: 20
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 4 Drawing Page(s)
LINE COUNT: 1102

L2 ANSWER 5 OF 6 USPATFULL on STN

TI Clotting cascade initiating apparatus and methods of use

AB Wound closure methods and apparatus are provided which utilize blood fluid by activating the clotting cascade of blood fluid outside the body within a substantially enclosed sterile container then introducing the blood fluid to the wound site to complete clotting. Methods and apparatus for providing ways of inhibiting anti-coagulating agents and slowing fibrin clot degradation are also disclosed. Kits for practicing the invention singularly or in combination with and/or associated with preferred procedures are also disclosed. The present invention provides improved methods of creating hemostasis or control of bleeding at the site of wounds, particularly wounds created in arteries during procedures employing percutaneous access. The invention preferably includes the steps of acquiring an aliquot of a patient's blood, i.e., autologous blood, removing a negatively charged anti-coagulating agent, preferably **heparin**, from the blood, and preferably initiating the blood's natural clotting cascades and transporting the thus treated blood to the site of the wound where the clotting cascade will be completed producing a clot at the wound site that will create a condition of hemostasis. The invention further provides a clotting cascade initiation apparatus including a substantially enclosed sterile containment chamber within which an aliquot of blood fluid, either autologous or from donor sources, can be received and retained. In preferred embodiments, the sterile containment chamber further includes a **heparin** binding agent which will bind **heparin** and remove it from the blood fluid. In further embodiments the containment chamber will also include a procoagulating agent, wherein a clotting cascade can be initiated when the blood fluid is accepted into the sterile containment chamber.

ACCESSION NUMBER: 2002:303578 USPATFULL
TITLE: Clotting cascade initiating apparatus and methods of use
INVENTOR(S): Nowakowski, Karol L., Circle Pines, MN, United States
Olson, James E., Eagan, MN, United States
Joseph, Edward T., Inver Grove Heights, MN, United States
PATENT ASSIGNEE(S): Ericson, Daniel G., Rochester, MN, United States
Closys Corporation, Edina, MN, United States (U.S. corporation)

| | NUMBER | KIND | DATE |
|-----------------------|--|------|--------------|
| PATENT INFORMATION: | US 6482223 | B1 | 20021119 |
| APPLICATION INFO.: | US 2000-585488 | | 20000601 (9) |
| RELATED APPLN. INFO.: | Continuation-in-part of Ser. No. US 1998-212080, filed on 15 Dec 1998, now patented, Pat. No. US 6159232 | | |

| | NUMBER | DATE |
|-----------------------|--|---------------|
| PRIORITY INFORMATION: | US 1997-69834P | 19971216 (60) |
| | US 1999-136837P | 19990601 (60) |
| DOCUMENT TYPE: | Utility | |
| FILE SEGMENT: | GRANTED | |
| PRIMARY EXAMINER: | Jackson, Gary | |
| LEGAL REPRESENTATIVE: | Moore & Hansen | |
| NUMBER OF CLAIMS: | 19 | |
| EXEMPLARY CLAIM: | 1 | |
| NUMBER OF DRAWINGS: | 5 Drawing Figure(s); 4 Drawing Page(s) | |
| LINE COUNT: | 1095 | |

L2 ANSWER 6 OF 6 USPATFULL on STN

TI Process and device for the specific adsorption of **heparin**
AB A process for the specific adsorption of **heparin** and other **heparin**-like substances which comprises flowing a buffered

solution of whole blood, from which corpuscular blood constituents have been removed, plasma and/or solutions containing whole blood or plasma through an adsorber capsule containing a medium that adsorbs **heparin** and other **heparin**-like substances at an acid pH, preferably in the range of 4.0 to 5.5. Preferably, the process is carried out in a closed, extracorporeal circulation and the medium possesses anion exchange resin properties.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 90:48589 USPATFULL
 TITLE: Process and device for the specific adsorption of **heparin**
 INVENTOR(S): Seidel, Dietrich, Gottingen, Germany, Federal Republic of
 Feller, Wolfgang, Melsungen, Germany, Federal Republic of
 Rosskopf, Gerhard, FuldaBruck-Dornhagen, Germany,
 Federal Republic of
 PATENT ASSIGNEE(S): B. Braun-SSC AG, Emmenbrucke, Switzerland (non-U.S.
 corporation)

| | NUMBER | KIND | DATE |
|-----------------------|--|------|--------------|
| PATENT INFORMATION: | US 4935204 | | 19900619 |
| APPLICATION INFO.: | US 1988-271368 | | 19881114 (7) |
| RELATED APPLN. INFO.: | Continuation of Ser. No. US 1988-149905, filed on 28 Jan 1988, now abandoned which is a continuation of Ser. No. US 1985-744197, filed on 13 Jun 1985, now abandoned | | |

| | NUMBER | DATE |
|-----------------------|--|----------|
| PRIORITY INFORMATION: | DE 1984-3422494 | 19840616 |
| DOCUMENT TYPE: | Utility | |
| FILE SEGMENT: | Granted | |
| PRIMARY EXAMINER: | Rollins, John W. | |
| LEGAL REPRESENTATIVE: | Kenyon & Kenyon | |
| NUMBER OF CLAIMS: | 35 | |
| EXEMPLARY CLAIM: | 1 | |
| NUMBER OF DRAWINGS: | 1 Drawing Figure(s); 1 Drawing Page(s) | |
| LINE COUNT: | 798 | |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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=> e yang, v/au
E1      1      YANG ZX/AU
E2      14     YANG ZY/AU
E3      0 --> YANG, V/AU
E4      3      YANGA/AU
E5      1      YANGA C S/AU
E6      8      YANGA D/AU
E7      1      YANGA F/AU
E8      1      YANGA F C/AU
E9      1      YANGA FENG/AU
E10     17     YANGA K/AU
E11     3      YANGA KIDIAMENE/AU
E12     3      YANGA M D/AU
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=> e byun, y/au
E1      2      BYUN YOUNGSUP/AU
E2      3      BYUN YU CHAN/AU
E3      0 --> BYUN, Y/AU
E4      1      BYUNAU E/AU
E5      8      BYUNAU E K/AU
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E6 1 BYUNG A H LEE/AU
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E8 2 BYUNG BUM CHOI/AU
E9 2 BYUNG C C/AU
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E11 1 BYUNG C K/AU
E12 2 BYUNG C L/AU

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L1 8662 S PROTAMINE AND HEPARIN
L2 6 S L1 AND (HEPARIN INACTIVATION)
E YANG, V/AU
E BYUN, Y/AU

=> s l1 and bleeding disorder

L3 128 L1 AND BLEEDING DISORDER

=> s l2 and l3

L4 0 L2 AND L3